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TITLE: Evaluation of chitosan used as an excipient in tablet formulations
AUTHOR(S): Kepsutlu, A. Riza; Savaser, Ayhan; Ozkan, Yalcin; Dikmen, Necati; Isimer, Askin
CORPORATE SOURCE: Department of Pharmaceutical Technology, Gulhane Military Medical Academy, Ankara, 06018, Turk.
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AB Chitosan was chosen as a model excipient because it has many different functions in pharmaceuticals. This study was intended to investigate the use and optimum concn. of chitosan as a tablet binder and disintegrant. Chitosan was prepd. by 2 tableting methods. In these methods, piroxicam was selected as an active substance. Tablet formulations were prepd. by granulating 3 viscosity grades of CMC (CM-cellulose) and 3 viscosity grades of PVP [poly(N-vinylpyrrolidone)] in varying ratios. Chitosan was evaluated as a binder for piroxicam tablets and compared with other polymer binders such as PVP. Again, a chitosan was evaluated as a disintegrant for piroxicam tablets as compared with other cellulose disintegrants such as CMC. In the wet method, chitosan decreased the release of the drug. Therefore, chitosan is considered to be useful as excipient for controlled release drug formulations. Chitosan is a pharmaceutical excipient of natural origin that may combine the binding and disintegrant properties.

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REFERENCE(S): (1) Aspeden, T; Int J Pharm 1995, V122, P69
(2) Baykara, T; Drug Dev Ind Pharm 1989, V15, P1341
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(5) Langenbucher, F; Drug Dev Ind Pharm 1977, V3,
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